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7.0 APPENDICES

Table A1. Catch/Effort by Month for Brown Shrimp, Summed Over All Years, for Louisiana Department Wildlife and Fisheries Barrier Island Stations, 16 ft. Trawl

Month	Station					
	47	48	12	24	20	25
January	3.40	1.96	0.36	0.60	0.28	0.67
February	2.43	4.05	0.08	0.14	NC	NC
March	0.83	0.42	0.29	0.26	0.04	0.13
April	3.52	6.78	0.40	0.31	0.38	NC
May	82.46	43.22	22.77	72.79	3.75	10.13
June	36.42	65.13	31.73	8.40	10.50	1.17
July	12.41	15.83	22.35	0.83	4.88	11.20
August	7.04	1.43	2.97	0.43	2.44	0.30
September	0.42	1.16	0.88	0.08	1.31	0.43
October	1.37	0.16	0.97	0.43	1.29	0.43
November	0.47	0.45	0.23	0.27	0.17	NC
December	0.88	1.00	0.33	0.36	0.12	0.27

NC = No Catch.

**Table A2. Catch/Effort by Month for White Shrimp, Summed Over All Years, for
Louisiana Department Wildlife and Fisheries Barrier Island Stations, 16 ft. Trawl.**

Month	Station					
	47	48	12	24	20	25
January	18.08	27.88	13.23	8.70	2.28	3.44
February	11.61	27.86	14.46	1.43	4.59	0.62
March	20.21	4.83	4.03	0.26	1.42	1.13
April	1.93	0.56	0.57	0.19	0.29	0.42
May	0.31	0.04	0.67	0.21	0.13	NC
June	0.08	0.17	0.35	NC	0.06	NC
July	0.50	0.33	0.74	0.08	0.25	0.20
August	0.76	0.81	2.73	0.21	0.56	NC
September	0.84	2.84	4.68	0.69	2.85	0.14
October	1.63	2.37	10.89	0.79	4.64	0.43
November	29.59	9.36	34.92	21.55	6.58	6.67
December	15.06	31.73	17.44	24.36	5.94	15.09

NC = No Catch.

Table A3. Catch/Effort by Month for Pink Shrimp, Summed Over All Years, for Louisiana Department Wildlife and Fisheries Barrier Island Stations, 16 ft. Trawl.

Month	Station					
	47	48	12	24	20	25
January	1.28	0.15	0.23	NC	0.06	NC
February	0.17	0.05	NC	NC	0.29	NC
March	0.92	0.08	0.03	NC	NC	NC
April	0.59	0.26	NC	0.25	NC	NC
May	0.15	0.19	0.10	NC	0.13	NC
June	NC	NC	NC	NC	NC	NC
July	NC	NC	NC	NC	NC	NC
August	NC	NC	NC	NC	0.06	NC
September	NC	NC	NC	NC	0.08	NC
October	NC	NC	NC	NC	NC	NC
November	0.06	NC	NC	NC	NC	NC
December	0.50	NC	1.52	0.07	5.00	0.09

NC = No Catch.

Table A4. Catch/Effort by Month for Blue Crab, Summed Over All Years, for Louisiana Department Wildlife and Fisheries Barrier Island Stations, 16 ft. Trawl.

Month	Station					
	47	48	12	24	20	25
Jan	14.68	6.12	1.82	0.2	0.61	0.89
Feb	9.96	11.19	1.72	0.71	1.18	0.23
Mar	12.54	10.63	3.43	1.37	1.42	NC
April	3.5	11.22	5.41	0.63	0.48	NC
May	3.08	7.19	6.24	1.57	0.31	0.38
June	8.85	17.43	4.05	4.27	1.81	6
July	4.41	11.61	18.63	4.75	2.07	3.4
Aug	2.52	7.43	6.54	2.43	0.2	0.1
Sept	0.47	0.89	2.81	1.38	0.54	0.29
Oct	0.42	0.53	0.48	0.36	NC	NC
Nov	3.18	0.36	0.33	NC	3	NC
Dec	4.31	4.47	2.56	0.31	2.25	0.64

NC = No Catch

Table A5. Catch/Effort by Month for Lesser Blue Crab, Summed Over All Years, for Louisiana Department Wildlife and Fisheries Barrier Island Stations, 16 ft. Trawl.

Month	Station					
	47	48	12	24	20	25
Jan	1.24	2.19	0.29	0.1	0.17	NC
Feb	5.61	5.38	0.44	0.14	0.06	0.31
Mar	3.58	8.29	0.57	0.11	0.08	0.06
April	3.65	31.07	0.52	1.63	0.62	0.08
May	22.56	121.15	0.32	1.07	3.25	3.25
June	6.08	31.39	1.64	2.27	2.81	0.17
July	1.82	11.78	2.898	0.5	1.43	1
Aug	0.08	4.48	1.75	1.93	NC	9
Sept	0.21	91.21	0.29	0.92	0.08	0.14
Oct	2	1.53	1.08	0.07	0.38	NC
Nov	9.18	11.82	0.27	0.09	0.33	NC
Dec	3.94	15.73	2.44	1.85	0.13	0.18

NC = No Catch

Table A6. Catch/Effort by Month for Atlantic Brief Squid, Summed Over All Years, for Louisiana Department Wildlife and Fisheries Barrier Island Stations, 16 ft. Trawl.

Month	Station					
	47	48	12	24	20	25
Jan	4.72	3.46	5.82	6.1	3.89	2.78
Feb	3.04	1.52	4.78	1.57	1.18	2.38
Mar	5.42	3.13	3.54	6.11	3.71	4.5
April	2.08	3.33	6.59	6.31	3.05	7.83
May	0.4	0.23	1.2	11	5	3.38
June	0.46	2.22	4.77	5.67	3.94	1.08
July	0.77	0.17	3.63	1.5	2.57	23.2
Aug	0.52	0.76	1.08	1.29	1.73	1
Sept	0.42	0.68	0.71	0.54	0.46	0.57
Oct	25.42	5.74	26.88	40	5.92	31.86
Nov	9.41	3.73	12.87	19.45	17.25	38.83
Dec	8.31	5.27	11.5	22.31	8.13	14.18

NC = No Catch

Table A7. Ecological classification of fishes recorded from Barataria and Terrebonne basins.

		Barataria	Terrebonne
FRESHWATER (37 species)			
Acipenseridae			
<i>Acipenser oxyrinchus*</i>	Atlantic sturgeon	X	
Lepisosteidae			
<i>Lepisosteus oculatus</i>	Spotted gar	X	X
<i>L. osseus</i>	Longnose gar	X	X
<i>L. spatula</i>	Alligator gar	X	X
Amiidae			
<i>Amia calva</i>	Bowfin	X	X
Clupeidae			
<i>Alosa alabamae</i>	Alabama shad	X	
<i>A. chrysocloris</i>	Skipjack herring	X	X
<i>Dorosoma cepedianum</i>	Gizzard shad	X	X
<i>D. petenense</i>	Threadfin shad	X	X
Esocidae			
<i>Esox niger</i>	Chain pickerel	X	
Cyprinidae			
<i>Notemigonus crysoleucas</i>	Golden shiner	X	
<i>Cyprinus carpio</i>	Common carp		X
Ictaluridae			
<i>Ameiurus melas</i>	Black bullhead		X
<i>A. natalis</i>	Yellow bullhead	X	
<i>Ictalurus furcatus</i>	Blue catfish	X	X
<i>I. punctatus</i>	Channel catfish	X	X

		Barataria	Terrebonne
<i>Pylodictis olivaris</i>	Flathead catfish	X	
Aphredoderidae			
<i>Aphredoderus sayanus</i>	Pirate perch	X	
Fundulidae			
<i>Fundulus chrysotus</i>	Golden topminnow	X	
Poeciliidae			
<i>Gambusia affinis</i>	Mosquitofish	X	X
<i>Heterandria formosa</i>	Least killifish	X	X
<i>Poecilia latipinna</i>	Sailfin molly	X	X
Moronidae			
<i>Morone mississippiensis</i>	Yellow bass	X	
<i>M. saxatilis</i>	Striped bass	X	
Elassomidae			
<i>Elassoma zonatum</i>	Banded pygmy sunfish	X	
Centrarchidae			
<i>Lepomis cyanellus</i>	Green sunfish	X	
<i>L. gulosus</i>	Warmouth	X	X
<i>L. humilis</i>	Orangespotted sunfish	X	
<i>L. macrochirus</i>	Bluegill	X	X
<i>L. marginatus</i>	Dollar sunfish	X	
<i>L. microlophus</i>	Redear sunfish	X	
<i>L. miniatus</i>	Redspotted sunfish	X	X
<i>L. symmetricus</i>	Bantam sunfish	X	
<i>Micropterus salmoides</i>	Largemouth bass	X	X
<i>Pomoxis annularis</i>	White crappie	X	X
<i>P. nigromaculatus</i>	Black crappie	X	

		Barataria	Terrebonne
ESTUARINE (24 species)			
Sciaenidae			
<i>Aplodinotus grunniens</i>	Freshwater drum	X	
Cyprinodontidae			
<i>Cyprinodon variegatus</i>	Sheepshead minnow	X	X
Fundulidae			
<i>Adinia xenica</i>	Diamond killifish	X	X
<i>Fundulus grandis</i>	Gulf killifish	X	X
<i>F. jenkinsi</i>	Saltmarsh killifish	X	X
<i>F. pulvereus</i>	Bayou killifish	X	X
<i>F. similis</i>	Longnose killifish	X	X
<i>Lucania parva</i>	Rainwater killifish	X	X
Atherinidae			
<i>Membras martinica</i>	Rough silverside	X	X
<i>Menidia beryllina</i>	Inland silverside	X	X
Syngnathidae			
<i>Syngnathus scovelli</i>	Gulf pipefish	X	X
Sparidae			
<i>Lagodon rhomboides</i>	Pinfish	X	X
Eleotridae			
<i>Dormitator maculatus</i>	Fat sleeper	X	X
<i>Eleotris pisonis</i>	Spinycheek sleeper	X	
Gobiidae			
<i>Evorthodus lyricus</i>	Lyre goby	X	X
<i>Gobiodoides broussonnetii</i>	Violet goby	X	X
<i>Gobionellus boleosoma</i>	Darter goby	X	X

		Barataria	Terrebonne
<i>G. oceanicus</i>	Highfin goby	X	X
<i>G. shufeldti</i>	Freshwater goby	X	X
<i>Gobionellus smaragdus</i>	Emerald goby		X
<i>Gobiosoma bosc</i>	Naked goby	X	X
<i>G. robustum</i>	Code goby	X	
<i>Microgobius gulosus</i>	Clown goby	X	X
<i>M. thalassinus</i>	Green goby	X	X
Soleidae			
<i>Trinectes maculatus</i>	Hogchoker	X	X
ESTUARINE-MARINE (26 species)			
Elopidae			
<i>Elops saurus</i>	Ladyfish	X	X
<i>Megalops atlanticus</i>	Tarpon	X	
Clupeidae			
<i>Brevoortia patronus</i>	Gulf menhaden	X	X
Engraulidae			
<i>Anchoa mitchilli</i>	Bay anchovy	X	X
Ariidae			
<i>Arius felis</i>	Hardhead catfish	X	X
<i>Bagre marinus</i>	Gafftopsail catfish	X	X
Gobiesocidae			
<i>Gobiesox strumosus</i>	Skilletfish	X	X
Belonidae			
<i>Strongylura marina</i>	Atlantic needlefish	X	X
Syngnathidae			
<i>Syngnathus floridae</i>	Dusky pipefish	X	

		Barataria	Terrebonne
<i>S. louisianae</i>	Chain pipefish	X	X
Carangidae			
<i>Oligoplites saurus</i>	Leatherjacket	X	X
Gerreidae			
<i>Eucinostomus argenteus</i>	Spotfin mojarra	X	X
Sparidae			
<i>Archosargus probatocephalus</i>	Sheepshead	X	X
Sciaenidae			
<i>Bairdiella chrysoura</i>	Silver perch	X	X
<i>Cynoscion arenarius</i>	Sand seatrout	X	X
<i>C. nebulosus</i>	Spotted seatrout	X	X
<i>Leiostomus xanthurus</i>	Spot	X	X
<i>Micropogonias undulatus</i>	Atlantic croaker	X	X
<i>Pogonias cromis</i>	Black drum	X	X
<i>Sciaenops ocellatus</i>	Red drum	X	X
<i>Stellifer lanceolatus</i>	Star drum	X	X
Ephippidae			
<i>Chaetodipterus faber</i>	Atlantic spadefish	X	X
Mugilidae			
<i>Mugil cephalus</i>	Striped mullet	X	X
Bothidae			
<i>Citharichthys spilopterus</i>	Bay whiff	X	X
<i>Paralichthys lethostigma</i>	Southern flounder	X	X
Soleidae			
<i>Achirus lineatus</i>	Lined sole	X	X

		Barataria	Terrebonne
MARINE (121 species)			
Carcharhinidae			
<i>Carcharhinus leucas</i>	Bull shark	X	X
<i>Carcharhinus limbatus</i>	Blacktip shark		X
<i>Carcharhinus plumbeus</i>	Sandbar shark		X
<i>Rhizoprionodon terraenovae</i>	Atlantic Sharpnose shark	X	X
Pristidae			
<i>Pristis pectinata</i>	Smalltooth stingray	X	
Dasyatidae			
<i>Dasyatis americana</i>	Southern stingray	X	X
<i>D. sabina</i>	Atlantic stingray	X	X
<i>D. say</i>	Bluntnose stingray		X
<i>Rhinoptera bonasus</i>	Cownose ray		X
Albulidae			
<i>Albula vulpes</i>	Bonefish	X	X
Anguillidae			
<i>Anguilla rostrata*</i>	American eel	X	X
Congridae			
<i>Hildebrandia flava</i>	Yellow conger	X	
<i>Paraconger caudilimbatus</i>	Margintail conger	X	
Ophichthidae			
<i>Bascanichthys bascanium</i>	Sooty eel		X
<i>Echiophis punctifer</i>	Snapper eel		X
<i>Gordiichthys irretitus</i>	Horsehair eel	X	
<i>Myrophis punctatus</i>	Speckled Worm eel	X	X
<i>Ophichthus gomesi</i>	Shrimp eel	X	X

		Barataria	Terrebonne
<i>O. ocellatus</i>	Palespotted eel	X	
Clupeidae			
<i>Harengula jaguana</i>	Scaled sardine	X	X
<i>Opisthonema oglinum</i>	Atlantic thread herring	X	X
Engraulidae			
<i>Anchoa cubana</i>	Cuban anchovy	X	
<i>A. hepsetus</i>	Striped anchovy	X	X
<i>A. lyolepis</i>	Dusky anchovy	X	X
Synodontidae			
<i>Synodus foetens</i>	Inshore lizardfish	X	X
Batrachoididae			
<i>Opsanus beta</i>	Gulf toadfish	X	X
<i>O. pardus</i>	Leopard toadfish	X	
<i>Porichthys pectorodon</i>	Atlantic midshipman	X	X
Antennariidae			
<i>Antennarius radiatus</i>	Singlespot frogfish	X	
<i>Histrio histrio</i>	Sargassumfish	X	X
Ogcocephalidae			
<i>Ogcocephalus radiatus</i>	Polka-dot batfish	X	
Gadidae			
<i>Urophycis cirrata</i>	Gulf hake	X	
<i>U. floridana</i>	Southern hake	X	X
<i>U. regia</i>	Spotted hake	X	
Bythitidae			
<i>Gunterichthys longipenis</i>	Gold brotula	X	X
Ophidiidae			

		Barataria	Terrebonne
<i>Lepophidium brevibarbe</i>	Blackedge cusk-eel	X	X
<i>Ophidion welshi</i>	Crested cusk-eel	X	X
Exocoetidae			
<i>Cypselurus melanurus</i>	Atlantic flyingfish	X	
<i>Hirundichthys affinis</i>	Fourwing flyingfish	X	
<i>H. rondeleti</i>	Blackwing flyingfish	X	
<i>Hyporhamphus meeki</i>	Halfbeak	X	X
<i>Prognichthys gibbifrons</i>	Bluntnose flyingfish	X	
Syngnathidae			
<i>Hippocampus erectus</i>	Lined seahorse	X	
<i>H. reidi</i>	Longsnout seahorse		X
<i>H. zosterae</i>	Dwarf seahorse	X	
Serranidae			
<i>Centropristes philadelphica</i>	Rock sea bass	X	X
Pomatomidae			
<i>Pomatomus saltatrix</i>	Bluefish	X	X
Rachycentridae			
<i>Rachycentron canadum</i>	Cobia	X	X
Echeneidae			
<i>Echeneis naucrates</i>	Sharksucker	X	X
Carangidae			
<i>Alectis ciliaris</i>	African pompano	X	
<i>Caranx cryos</i>	Blue runner	X	X
<i>C. hippos</i>	Crevalle jack	X	X
<i>C. latus</i>	Horse-eye jack	X	X
<i>Chloroscombrus chrysurus</i>	Atlantic bumper	X	X

		Barataria	Terrebonne
<i>Hemicaranx amblyrhynchus</i>	Bluntnose jack	X	
<i>Selene setapinnis</i>	Atlantic moonfish	X	X
<i>S. vomer</i>	Lookdown	X	X
<i>Seriola dumerili</i>	Greater amberjack		X
<i>Seriola zonata</i>	Banded rudderfish	X	
<i>Trachinotus carolinus</i>	Florida pompano	X	X
<i>T. falcatus</i>	Permit	X	X
<i>Trachurus lathami</i>	Rough scad	X	
Coryphaenidae			
<i>Coryphaena hippurus</i>	Dolphin	X	X
Lutjanidae			
<i>Lutjanus analis</i>	Mutton snapper		X
<i>Lutjanus apodus</i>	Schoolmaster	X	
<i>L. griseus</i>	Gray snapper	X	X
<i>L. synagris</i>	Lane snapper	X	X
Lobotidae			
<i>Lobotes surinamensis</i>	Tripletail	X	X
Gerreidae			
<i>Diapterus auratus</i>	Irish pompano		X
<i>D. plumieri</i>	Striped mojarra	X	
<i>Eucinostomus gula</i>	Silver jenny	X	X
<i>E. melanopterus</i>	Flagfin mojarra	X	X
<i>Gerres cinereus</i>	Yellowfin mojarra	X	X
Haemulidae			
<i>Orthopristis chrysoptera</i>	Pigfish	X	X

		Barataria	Terrebonne
Sciaenidae			
<i>Cynoscion nothus</i>	Silver seatrout	X	X
<i>Larimus fasciatus</i>	Banded drum	X	X
<i>Menticirrhus americanus</i>	Southern kingfish	X	X
<i>M. littoralis</i>	Gulf kingfish	X	X
<i>M. saxatilis</i>	Northern kingfish	X	X
Kyphosidae			
<i>Kyphosus sectatrix</i>	Bermuda club		X
Pomacentridae			
<i>Abudedus saxatilis</i>	Sergeant major		X
Mugilidae			
<i>Mugil curema</i>	White mullet	X	X
Sphyraenidae			
<i>Sphyraena barracuda</i>	Great barracuda	X	X
<i>S. borealis</i>	Northern sennet	X	X
<i>S. guachancho</i>	Guaguanche	X	
Polynemidae			
<i>Polydactylus octonemus</i>	Atlantic threadfin	X	X
Uranoscopidae			
<i>Astroscopus y-graecum</i>	Southern stargazer	X	X
Blenniidae			
<i>Chasmodes bosquianus</i>	Striped blenny	X	X
<i>Hyleurochilus geminatus</i>	Crested blenny	X	X
<i>Hypsoblennius ionthas</i>	Freckled blenny	X	X
Eleotridae			
<i>Eretelis smaragdus</i>	Emerald sleeper	X	X

		Barataria	Terrebonne
Gobiidae			
<i>Bathygobius soporator</i>	Frillfin goby	X	X
Microdesmidae			
<i>Microdesmus longipinnis</i>	Pink wormfish	X	
Trichiuridae			
<i>Trichiurus lepturus</i>	Atlantic cutlassfish	X	X
Scombridae			
<i>Scomberomorus cavalla</i>	King mackerel	X	X
<i>S. maculatus</i>	Spanish mackerel	X	X
Stromateidae			
<i>Hyperoglyphe bythites</i>	Black driftfish	X	X
<i>Nameus gronovii</i>	Man-o-war fish		X
<i>Peprilus alepidotus</i>	Harvestfish	X	X
<i>P. burti</i>	Gulf butterfish	X	X
Triglidae			
<i>Prionotus longispinosus</i>	Bigeye searobin	X	X
<i>P. roseus</i>	Bluespotted searobin	X	
<i>P. rubio</i>	Blackwing searobin	X	X
<i>P. scitulus</i>	Leopard searobin	X	X
<i>P. tribulus</i>	Bighead searobin	X	X
Bothidae			
<i>Ancylopsetta dilecta</i>	Three-eye flounder	X	
<i>A. quadrocellata</i>	Ocellated flounder	X	X
<i>Citharichthys macrops</i>	Spotted whiff	X	
<i>Etropus crossotus</i>	Fringed flounder	X	X
<i>Paralichthys squamilentus</i>	Broad flounder	X	X

		Barataria	Terrebonne
Soleidae			
<i>Gymnachirus melas</i>	Naked sole		X
Cynoglossidae			
<i>Syphurus civitatus</i>	Offshore tonguefish	X	X
<i>S. plagiata</i>	Blackcheek tonguefish	X	X
Balistidae			
<i>Aluterus schoepfi</i>	Orange filefish	X	
<i>A. scriptus</i>	Scrawled filefish	X	
<i>Canthidermis sufflamen</i>	Ocean triggerfish	X	
<i>Monacanthus hispidus</i>	Planehead filefish	X	
Tetraodontidae			
<i>Lagocephalus laevigatus</i>	Smooth puffer	X	X
<i>Sphoeroides parvus</i>	Least puffer	X	X
Diodontidae			
<i>Chilomycterus schoepfi</i>	Striped burrfish	X	X
Molidae			
<i>Mola mola</i>	Ocean sunfish	X	

* Diadromous life cycle (see McDowall 1987)

Data synthesized from Adkins and Bourgeois (1982), Adkins and Bowman (1976), Adkins et al. (1979), Allen (1979), Barrett et al. (1978), Chambers (1980), Forman (1968), Guillory (1982), Perret et al. (1971), Perry (1979), Ruebsamen (1972), Sabins and Truesdale (1974), Swanson (1991), Thompson (1988), Thompson and Forman (1987), and Wagner (1973). Nomenclature follows Robins et al. (1991).

Table A8. Catch/Effort by Month for Selected Finfish, Summed Over All Years, for Louisiana Department Wildlife and Fisheries Barrier Island Station 47, 16 ft. Trawl.

Species	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bay Anchovy	176.16	73.57	204.04	229.35	76.28	69.38	150.36	55.64	37.05	179.00	137.53	148.81
Atlantic Croaker	23.68	22.00	35.83	236.77	43.80	6.12	2.14	3.88	0.21	NC	NC	0.13
Spot	0.32	0.26	0.58	1.23	2.00	1.81	0.95	1.24	NC	NC	NC	0.31
Gulf Menhaden	0.92	0.43	0.13	0.77	0.32	0.50	1.82	0.44	1.11	0.11	0.29	0.44
Atlantic Threadfin	NC	NC	1.58	43.54	31.20	2.35	0.27	0.20	0.16	NC	NC	0.44
Sand Seatrout	0.32	0.04	0.29	0.73	5.48	0.50	0.05	0.32	2.32	0.21	11.35	2.50
Sea Catfish	0.24	2.43	1.25	0.50	5.08	0.35	4.23	20.72	5.47	1.79	3.65	0.88
Bay Whiff	0.28	0.35	0.38	0.62	0.56	0.15	0.09	NC	0.05	0.05	0.12	0.31
Atlantic Bumper	0.92	NC	0.25	0.38	0.32	3.96	6.50	29.56	8.95	91.00	52.71	0.19
Inshore Lizard Fish	0.28	0.04	NC	NC	0.08	NC	0.23	0.20	0.05	0.26	NC	0.75
Striped Anchovy	NC	NC	NC	NC	4.60	34.92	14.36	0.84	0.84	0.58	0.06	0.06
Bighead Searobin	4.60	5.83	5.04	2.15	0.56	0.35	NC	NC	NC	0.16	0.65	2.00
Blackcheek Tonguefish	4.08	3.87	8.33	7.35	6.24	6.65	1.95	1.28	0.16	0.21	9.29	5.19
Lined Sole	0.08	0.04	0.54	0.19	0.12	NC	NC	NC	0.05	NC	0.24	0.13
Fringed Flounder	5.64	0.96	2.42	0.46	0.08	0.19	0.09	NC	NC	0.11	1.00	2.06
Atlantic Cutlassfish	0.10	0.17	0.42	0.38	0.60	2.42	0.23	0.04	0.05	NC	0.53	0.06
Southern Kingfish	1.40	1.65	1.17	0.50	3.16	3.35	0.45	0.56	0.11	2.42	8.94	2.13
Banded Drum	1.20	1.43	7.21	0.85	0.08	1.85	2.09	0.48	0.84	6.21	39.88	11.81
Star Drum	0.24	0.13	0.46	0.38	0.04	0.77	0.05	NC	0.16	0.11	2.12	0.25
Gulf Butterfish	4.68	3.57	12.25	5.23	0.28	0.12	NC	0.08	0.16	0.47	3.53	6.75
Bank Cusk Eel	0.68	0.48	1.04	0.69	0.36	1.31	0.05	0.04	0.05	NC	NC	0.06
Least Puffer	2.68	1.96	1.00	0.12	1.40	0.69	0.68	NC	0.63	0.42	3.88	5.50

NC = No Catch

Table A9. Catch/Effort by Month for Selected Finfish, Summed Over All Years, for Louisiana Department Wildlife and Fisheries Barrier Island Station 48, 16 ft. Trawl.

Species	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bay Anchovy	187.08	198.76	193.88	230.41	168.00	199.61	210.28	49.24	29.84	136.37	69.18	82.53
Atlantic Croaker	9.58	8.95	12.25	235.56	15.96	5.91	16.11	0.24	0.26	NC	0.09	0.13
Spot	0.65	NC	NC	1.81	2.04	13.87	0.67	0.57	0.21	NC	0.09	NC
Gulf Menhaden	0.38	0.57	0.08	0.96	0.27	0.91	2.94	1.29	0.16	0.05	0.64	0.60
Atlantic Threadfin	NC	0.14	0.92	106.22	15.65	12.70	0.61	NC	0.05	NC	NC	NC
Sand Seatrout	0.62	0.05	0.21	1.59	2.85	3.57	0.11	NC	0.74	0.47	6.82	0.73
Sea Catfish	0.96	1.24	2.33	NC	1.12	1.04	4.22	9.24	10.32	1.89	0.82	2.07
Hogchoker	0.04	0.14	0.42	0.33	NC	0.04	NC	0.05	0.05	0.05	NC	0.20
Bay Whiff	0.12	0.24	0.21	2.41	3.04	1.39	0.72	0.43	NC	0.05	NC	NC
Atlantic Bumper	0.04	NC	NC	NC	0.38	4.65	9.22	22.71	5.00	30.16	8.45	0.93
Striped Anchovy	NC	NC	NC	NC	14.54	13.13	5.89	0.62	1.21	28.21	0.09	0.20
Bighead Searobin	3.27	2.67	5.92	4.67	0.92	0.35	NC	NC	0.05	0.11	0.27	1.60
Blackcheek Tonguefish	4.65	1.05	10.17	5.59	12.04	6.30	5.33	5.10	0.47	0.16	1.73	6.53
Fringed Flounder	0.88	0.24	0.63	0.11	0.08	0.22	2.50	0.10	0.21	NC	0.09	0.53
Atlantic Cutlassfish	1.81	3.00	0.79	2.04	1.96	2.13	0.89	0.43	1.05	NC	0.27	6.07
Southern Kingfish	1.62	1.14	1.33	0.59	1.04	2.04	0.78	0.14	1.58	0.89	3.82	2.33
Banded Drum	4.15	3.95	6.04	1.96	1.08	0.91	0.94	0.14	1.42	9.63	6.27	4.07
Star Drum	1.04	1.00	1.17	0.15	0.08	5.39	0.39	0.10	2.26	3.32	4.91	4.40
Silver Seatrout	0.38	0.05	NC	0.19	0.27	0.57	0.06	0.19	0.016	0.37	0.36	0.20
Gulf Butterfish	7.92	3.71	3.13	23.00	0.27	0.22	NC	NC	NC	0.32	1.09	0.80
Bank Cusk Eel	0.42	0.10	2.21	1.00	0.85	0.22	0.17	NC	0.05	NC	NC	0.07
Least Puffer	2.42	1.38	0.42	0.22	1.19	1.00	0.39	0.05	0.21	0.11	1.27	2.60

NC = No Catch

Table A10. Catch/Effort by Month for Selected Finfish, Summed OverAll Years, for Louisiana Department Wildlife and Fisheries Barrier Island Station 12, 16 ft. Trawl.

Species	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bay Anchovy	108.18	144.00	244.89	284.07	178.88	180.00	309.58	169.42	78.24	192.12	73.33	48.75
Atlantic Croaker	232.18	62.61	48.36	96.89	79.68	20.45	27.53	3.00	1.67	0.20	0.20	7.63
Spot	0.65	0.44	14.89	4.67	9.80	1.77	2.00	0.13	0.38	0.60	NC	2.13
Gulf Menhaden	NC	NC	54.14	0.41	0.80	0.09	0.42	1.13	0.62	0.72	0.07	0.19
Atlantic Threadfin	NC	NC	0.79	101.48	89.92	6.95	8.89	0.71	0.95	NC	NC	NC
Sand Seatrout	0.12	1.56	0.43	1.78	1.80	0.68	0.32	2.58	2.95	5.20	7.53	0.44
Sea Catfish	0.41	2.06	0.64	1.26	2.60	1.45	10.79	3.46	3.62	3.40	1.60	0.19
Bay Whiff	NC	0.39	0.04	0.07	0.08	0.14	0.26	NC	0.14	0.16	NC	0.06
Atlantic Spadefish	NC	NC	0.46	0.07	0.04	0.18	0.42	0.88	1.05	0.24	0.07	NC
Silver Perch	0.47	4.22	0.36	1.00	0.56	0.32	0.53	0.13	0.24	0.04	NC	0.38
Atlantic Bumper	0.82	2.28	0.36	NC	NC	0.14	18.32	38.54	21.05	12.28	1.33	NC
Inshore Lizardfish	NC	NC	NC	NC	NC	0.32	0.32	0.04	1.43	0.16	1.13	0.13
Striped Anchovy	NC	NC	NC	0.04	0.56	66.14	67.32	66.13	6.57	50.44	0.20	0.31
Bighead Scorobin	0.94	1.11	0.75	0.15	0.20	0.14	0.79	0.04	NC	0.04	0.60	0.19
Blackcheek Tonguefish	2.47	1.83	3.50	0.85	0.32	1.36	1.47	0.46	0.19	0.40	0.27	0.50
Fringed Flounder	0.41	0.39	0.86	0.11	0.08	0.05	0.26	0.38	1.00	1.32	1.53	0.25
Atlantic Cutlassfish	1.12	0.11	0.71	0.74	0.84	0.32	0.21	0.50	0.24	0.08	0.80	0.38
Southern Kingfish	2.94	0.61	1.14	0.33	0.44	0.45	0.26	0.29	0.14	0.80	2.20	1.00
Banded Drum	0.35	0.33	20.71	0.74	0.16	0.23	0.42	0.04	NC	1.84	2.33	0.75
Star Drum	1.41	1.44	1.11	0.74	2.36	0.41	7.05	10.79	0.29	3.88	0.80	14.63
Gulf Butterfish	4.18	1.17	1.04	2.04	0.68	0.09	NC	0.21	NC	0.04	0.93	0.31
Least Puffer	0.41	1.33	0.25	NC	NC	1.91	0.05	0.08	0.05	0.48	0.80	1.50

NC = No Catch

Table A11. Catch/Effort by Month for Selected Finfish, Summed Over All Years, for Louisiana Department Wildlife and Fisheries Barrier Island Station 24, 16 ft. Trawl.

Species	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bay Anchovy	210.10	129.86	197.21	368.75	316.43	230.00	232.92	33.64	22.08	296.21	114.18	236.31
Atlantic Croaker	29.60	4.14	43.37	60.75	32.64	0.87	6.33	0.43	0.15	NC	NC	43.77
Spot	0.70	NC	0.53	2.38	4.43	0.60	3.25	0.21	0.08	NC	0.09	0.38
Gulf Menhaden	NC	NC	0.53	0.19	1.07	0.13	0.75	NC	0.31	0.29	NC	NC
Atlantic Threadfin	NC	NC	0.05	6.81	33.71	1.27	1.00	NC	NC	NC	NC	NC
Sand Seatrout	1.60	0.93	0.16	2.25	0.93	0.40	0.17	0.64	1.46	3.79	3.73	1.23
Sea Catfish	0.10	NC	0.37	2.06	0.14	1.93	10.17	37.29	1.92	0.43	47.73	0.15
Atlantic Bumper	NC	1.64	0.21	0.19	NC	0.20	4.25	13.14	0.46	71.14	2.18	NC
Inshore Lizardfish	NC	NC	0.05	0.25	0.29	0.20	0.42	0.21	0.08	0.50	0.55	NC
Striped Anchovy	0.40	NC	NC	0.19	29.50	47.07	2.92	2.43	1.85	38.64	1.36	0.08
Fringed Flounder	0.30	0.36	0.26	0.19	0.14	0.07	0.25	0.50	0.62	0.29	0.27	0.31
Atlantic Cutlassfish	0.90	0.57	0.37	NC	0.64	0.33	0.08	0.14	NC	0.36	0.64	0.38
Southern Kingfish	1.60	0.93	0.21	0.38	0.14	0.87	0.33	NC	0.08	5.43	1.00	1.15
Banded Drum	0.50	0.43	0.47	0.31	0.36	0.67	0.08	NC	NC	5.50	0.73	1.46
Star Drum	0.40	0.29	NC	0.13	NC	0.53	NC	0.71	NC	11.86	0.91	0.77
Gulf Butterfish	1.40	1.07	0.42	5.88	0.57	0.47	0.08	NC	0.08	NC	0.18	1.15
Least Puffer	0.80	0.50	NC	NC	0.29	NC	0.17	0.21	0.08	0.07	0.27	0.54

NC = No Catch

Table A12. Catch/Effort by Month for Selected Finfish, Summed Over All Years, for Louisiana Department Wildlife and Fisheries Barrier Island Station 20, 16 ft. Trawl.

Species	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bay Anchovy	159.00	160.35	204.79	367.43	141.31	76.38	96.50	43.20	22.85	174.15	27.00	46.44
Atlantic Croaker	3.94	45.18	46.17	21.29	50.31	3.13	9.07	25.47	4.46	0.23	0.33	9.75
Spot	0.67	0.06	1.33	3.05	9.31	2.75	1.86	0.07	NC	0.15	NC	0.06
Atlantic Threadfin	NC	NC	0.21	32.52	46.94	9.56	0.57	1.33	1.08	NC	NC	NC
Sand Seatrout	0.11	0.47	0.33	2.90	1.19	0.69	NC	0.47	1.15	3.38	9.75	4.19
Sea Catfish	NC	0.41	1.00	0.48	0.06	0.19	0.57	3.33	4.00	0.46	0.58	6.44
Bay Whiff	0.06	0.06	42.71	0.14	NC	NC	0.21	0.07	0.23	NC	0.08	NC
Atlantic Bumper	NC	1.24	0.21	0.14	0.13	0.13	5.00	22.47	1.31	18.15	1.33	2.06
Striped Anchovy	NC	0.59	NC	18.90	6.69	0.31	0.64	1.80	1.46	72.54	3.25	0.19
Bighead Searobin	0.94	4.41	0.46	0.05	0.13	NC	2.14	NC	NC	NC	0.08	1.13
Blackcheek Tonguefish	1.22	3.71	1.08	0.81	0.38	1.56	3.93	0.20	NC	0.08	1.25	3.69
Lined Sole	0.11	NC	0.13	0.05	0.06	0.13	NC	0.07	NC	NC	0.17	0.44
Fringed Flounder	0.39	0.47	0.33	0.10	NC	0.13	0.14	NC	0.08	NC	1.00	0.44
Atlantic Cutlassfish	0.28	0.41	0.63	0.71	1.31	0.69	NC	1.40	0.92	0.08	0.42	0.31
Southern Kingfish	1.11	0.59	0.38	0.48	0.88	0.19	0.21	NC	0.54	1.08	2.17	2.44
Atlantic Thread Herring	0.11	NC	0.04	3.38	1.81	NC	0.07	1.60	NC	0.08	0.08	NC
Banded Drum	0.89	2.94	1.63	1.52	0.38	0.06	0.07	NC	NC	0.69	8.67	6.88
Star Drum	0.06	10.94	0.17	0.10	0.13	0.13	0.21	20.93	0.23	0.62	0.42	0.44
Gulf Butterfish	1.44	0.35	1.04	1.19	0.75	0.38	NC	0.13	0.08	0.15	1.00	5.44
Least Puffer	0.11	0.35	NC	NC	NC	0.19	0.07	NC	0.15	1.08	0.33	0.63

NC = No Catch

Table A13. Catch/Effort by Month for Selected Finfish, Summed Over All Years, for Louisiana Department Wildlife and Fisheries Barrier Island Station 25, 16 ft. Trawl.

Species	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bay Anchovy	149.00	182.00	443.81	859.67	78.13	15.83	107.20	4.90	17.00	272.86	70.00	87.00
Atlantic Croaker	7.22	86.31	115.13	48.75	8.75	0.25	11.20	NC	1.43	NC	0.50	13.00
Sand Seatrout	4.22	NC	0.69	2.00	0.38	NC	1.00	NC	4.71	1.43	9.50	3.55
Atlantic Bumper	NC	0.15	0.31	NC	NC	NC	77.80	29.60	13.14	50.86	0.67	0.09
Striped Anchovy	NC	4.31	0.38	NC	0.63	0.17	10.00	3.30	0.71	82.86	1.17	24.82
Blackcheek Tonguefish	4.78	0.08	1.75	NC	NC	0.33	0.60	0.70	NC	0.14	NC	2.64
Fringed Flounder	0.56	NC	0.25	0.08	0.25	NC	0.20	0.10	0.29	0.14	0.17	1.09
Atlantic Cutlassfish	0.33	0.38	0.81	0.17	0.13	0.25	0.20	NC	NC	0.29	0.83	NC
Southern Kingfish	0.33	0.15	0.06	0.25	0.25	0.17	1.00	NC	NC	0.43	2.67	1.27
Banded Drum	0.33	NC	0.44	1.58	1.00	NC	NC	NC	NC	0.43	0.50	0.09
Star Drum	0.11	NC	0.81	NC	0.13	1.75	0.60	NC	NC	0.43	0.17	NC
Gulf Butterfish	0.11	0.62	1.81	1.42	1.75	NC	NC	0.70	NC	NC	NC	1.73

NC = No Catch

Table A14. Reptiles of the Barataria-Terrebonne estuarine system (after Dundee and Rossman 1989).

Order Testudines TURTLES, TORTOISES, AND TERRAPINS

Family Cheloniidae HARD-BACKED SEA TURTLES

LOGGERHEAD* *Caretta caretta*

GREEN TURTLE* *Chelonia mydas*

HAWKSBILL* *Eretmochelys imbricata*

ATLANTIC RIDLEY *Lepidochelys kempi*

Family Chelydridae SNAPPING TURTLES

SNAPPING TURTLE *Chelydra serpentina*

ALLIGATOR SNAPPING TURTLE *Macrochelys temminckii*

Family Dermochelyidae LEATHER-BACKED SEATURTLES

LEATHERBACK *Dermochelys coriacea*

Family Emydidae LAND AND FRESHWATER

PAINTED TURTLE *Chrysemys picta*

CHICKEN TURTLE *Deirochelys reticularia*

MISSISSIPPI MAP TURTLE *Graptemys kohnii*

FALSEMAP TURTLE *Graptemys pseudogeographica*

DIAMOND-BACKED TERRAPIN *Malaclemys terrapin*

RIVER COOTER *Pseudemys concinna*

COOTER *Pseudemys floridana*

EASTERN BOX TURTLE *Terrapene carolina*

SLIDER *Trachemys scripta*

Family Kinosternidae MUD AND MUSK TURTLES

EASTERN MUD TURTLE *Kinosternon subrubrum*

RAZOR-BACKED MUSK TURTLE *Sternotherus carinatus*

COMMON MUSK TURTLE *Sternotherus odoratus*

Family Trionychidae SOFT-SHELLED TURTLES

SMOOTH SOFTSHELL *Apalone mutica*

SPINY SOFTSHELL *Apalone spinifera*

Order Squamata LIZARDS AND SNAKES

Family Anguidae

SLINDER GLASS LIZARD *Ophisaurus attenuatus*

EASTER GLASS LIZARD *Ophisaurus ventralis*

Family Iguanidae

GREEN ANOLE *Anolis carolinensis*

Family Scincidae

FIVE-LINED SKINK *Eumeces fasciatus*

BROAD-HEADED SKINK *Eumeces laticeps*

GROUND SKINK *Scincella lateralis*

Family Colubridae

RACER *Coluber constrictor*

RING-NECKED SNAKE *Diadophis punctatus*

CORN SNAKE *Elaphe guttata*

RAT SNAKE *Elaphe obsoleta*

MUD SNAKE *Farancia abacura*

EASTERN HOG-NOSED SNAKE *Heterodon platyrhinos*

COMMON KINGSNAKE *Lampropeltis getulus*

MILK SNAKE *Lampropeltis triangulum*

SALTMARSH SNAKE *Nerodia clarkii*

WESTERN GREEN WATER SNAKE *Nerodia cyclopion*

PLAIN-BELLIED WATER SNAKE *Nerodia erythrogaster*

SOUTHERN WATER SNAKE *Nerodia fasciata*

DIAMOND-BACKED WATER SNAKE *Nerodia rhombifera*

ROUGH GREEN SNAKE *Opheodrys aestivus*

GRAHAM'S CRAYFISH SNAKE *Regina grahamii*

GLOSSY CRAYFISH SNAKE *Regina rigida*

BROWN SNAKE *Storeria dekayi*

WESTERN RIBBON SNAKE *Thamnophis proximus*

COMMON GARTER SNAKE *Thamnophis sirtalis*

Family Viperidae

COPPERHEAD *Agkistrodon contortrix*

COTTONMOUTH *Agkistrodon piscivorus*

TIMBER RATTLESNAKE *Crotalus horridus*

PYGMY RATTLESNAKE *Sistrurus miliarius*

Order Crocodylia CROCODILIANS

Family Crocodylidae

AMERICAN ALLIGATOR *Alligator mississippiensis*

*These three seaturtles are presumed to occur along the BTES coast.

Table A15. Mammals of the Barataria-Terrebonne estuarine system (after Lowery 1974a). This table includes mammals now at least locally extinct but present when the French first began to colonize Louisiana in 1699.

Order Marsupialia

Family Dipelphidae OPOSSUMS

VIRGINIA OPOSSUM (*Didelphis virginiana*)

Order Insectivora

Family Soricidae SHREWS

LEAST SHREW (*Cryptotis parva*)

Order Chiroptera

Family Vespertilionidae VESPERTILIONID BATS

SOUTHEASTERN MYOTIS (*Myotis austroriparius*)

EASTERN PIPISTRELLE (*Pipistrellus subflavus*)

BIG BROWN BAT (*Eptesicus fuscus*)

RED BAT (*Lasiurus borealis*)

SEMINOLE BAT (*Lasiurus seminolus*)

HOARY BAT (*Lasiurus cinereus*)

NORTHERN YELLOW BAT (*Lasiurus intermedius*)

EVENING BAT (*Nycticeius humeralis*)

RAFINESQUE'S BIG-EARED BAT (*Plecotus rafinesquii*)

Family Molossidae FREE-TAILED BATS

BRAZILIAN FREE-TAILED BAT (*Tadarida brasiliensis*)

Order Edentata

Family Dasypodidae ARMADILLOS

NINE-BANDED ARMADILLO (*Dasypus novemcinctus*)

Order Lagomorpha

Family Leporidae HARES AND RABBITS

EASTERN COTTONTAIL (*Sylvilagus floridanus*)

SWAMP RABBIT (*Sylvilagus aquaticus*)

Order Rodentia

Family Sciuridae SQUIRRELS

GRAY SQUIRREL (*Sciurus carolinensis*)

FOX SQUIRREL (*Sciurus niger*)

SOUTHERN FLYING SQUIRREL (*Glaucomys volans*)

Family Castoridae BEAVERS

AMERICAN BEAVER (*Castor canadensis*)

Family Cricetidae NEW WORLD RATS AND MICE

MARSH RICE RAT (*Oryzomys palustris*)

EASTERN HARVEST MOUSE (*Reithrodontomys humulis*)

FULVOUS HARVEST MOUSE (*Reithrodontomys fulvescens*)

WHITE-FOOTED MOUSE (*Peromyscus leucopus*)

COTTON MOUSE (*Peromyscus gossypinus*)

HISPID COTTON RAT (*Sigmodon hispidus*)

EASTERN WOOD RAT (*Neotoma floridana*)

WOODLAND VOLE (*Microtus pinetorum*)

COMMON MUSKRAT (*Ondatra zibethicus*)

Family Muridae INTRODUCED, OLD WORLD RATS AND MICE

ROOF RAT (*Rattus rattus*)

NORWAY RAT (*Rattus norvegicus*)

HOUSE MOUSE (*Mus musculus*)

Family Capromyidae INTRODUCED, COYPUS AND HUTIAS

NUTRIA (*Myocastor coypus*)

Order Cetacea

Family Delphinidae PORPOISES AND DOLPHINS

BOTTLE-NOSED DOLPHIN (*Tursiops truncatus*)

SHORT-FINNED PILOT WHALE (*Globicephala macrorhyncha*)

Order Carnivora

Family Canidae FOXES, WOLVES, AND COYOTES

COYOTE (*Canis latrans*)

RED WOLF (*Canis rufus*)

RED FOX (*Vulpes fulva*)

GRAY FOX (*Urocyon cinereoargenteus*)

Family Ursidae BEARS

AMERICAN BLACK BEAR (*Ursus americanus*)

Family Procyonidae RACCOONS

NORTHERN RACCOON (*Procyon lotor*)

Family Mustelidae MUSTELIDS

LONG-TAILED WEASEL (*Mustela frenata*)

NORTH AMERICAN MINK (*Mustela vison*)

STRIPED SKUNK (*Mephitis mephitis*)

NEARCTIC RIVER OTTER (*Lutra canadensis*)

Family Felidae CATS

COUGAR (*Felis concolor*)

BOBCAT (*Lynx rufus*)

Order Artiodactyla

Family Cervidae DEER

WHITE-TAILED DEER (*Odocoileus virginianus*)

Family Bovidae BOVIDS

BISON (*Bison bison*)

Table A16. Birds Recorded for the Phase I Barrier Island Area (modified from Condrey et al. 1995 as per Farrand 1983 and Purrington 1995). Under each bird the estimated relative abundance for the broader Barataria-Terrebonne Estuarine System is given. Relative abundance in decreasing order: abundant, very common, common, rather common, fairly common, occasional, present, regular, uncommon, quite uncommon, very uncommon, almost rare, rare, very rare, casual, accidental, locally extinct, and extinct. The term "erratic" is used to describe a species that may be common one year and absent the next.

Order *Gaviiformes*

Family Gaviidae LOONS

COMMON LOON (*Gavia immer*)

Uncommon to regular in winter

Order *Podicipediformes*

Family Podicipedidae GREBES

HORNED GREBE (*Podiceps auritus*)

Rare to uncommon in winter

PIED-BILLED GREBE (*Podilymbus podiceps*)

Common in winter; uncommon to rare breeding bird

EARED GREBE (*Podiceps nigricollis*)

Occasional in winter

Order *Pelicaniformes*

Family Pelicanidae PELICANS

AMERICAN WHITE PELICAN (*Pelecanus erythrorhynchos*)

Common in winter, non-breeders present in summer

BROWN PELICAN (*Pelecanus occidentalis*)

Formerly locally extinct. Reintroduced, now resident and increasing

Family Phalacrocoracidae CORMORANTS

DOUBLE-CRESTED CORMORANT (*Phalacrocorax auritus*)

Common in winter

OLIVACEOUS CORMORANT (*Phacrococax olivaceous*)

Casual visitor

Family Anhingidae ANHINGAS

ANHINGA (*Anhinga anhinga*)

Fairly common in breeding season; rare in winter

Family Fregatidae FRIGATEBIRDS

MAGNIFICENT FRIGATE-BIRD (*Fregata magnificens*)

Uncommon to fairly common in summer (non-breeding)

Order *Ciconiformes*

Family Ardeidae HERONS AND BITTERNS

AMERICAN BITTERN (*Botaurus lentiginosus*)

Uncommon in winter

LEAST BITTERN (*Ixobrychus exillis*)

Uncommon to common in summer

GREAT BLUE HERON (*Ardea herodias*)

Common resident

GREAT EGRET (*Casmerodius albus*)

Common to abundant resident

SNOWY EGRET (*Egretta thula*)

Common to abundant resident

LITTLE BLUE HERON (*Egretta caerulea*)

Common to abundant resident

TRI-COLORED HERON (*Egretta tricolor*)

Common to abundant resident

REDDISH EGRET (*Egretta rufescens*)

Rare to uncommon resident

CATTLE EGRET (*Bubulcus ibis*)

Common to abundant resident

GREEN- BACKED HERON (*Butorides striatus*)

Uncommon to common in summer; rare, but regular, in winter

BLACK-CROWNED NIGHT HERON (*Nycticorax nycticorax*)

Uncommon to common resident

YELLOW-CROWNED NIGHT-HERON (*Nycticorax violacea*)

Common in summer; rare in winter

Family Threskiornithidae IBISES AND SPOONBILLS

WHITE IBIS (*Eudocimus albus*)

Common to abundant resident

GLOSSY IBIS (*Plegadis falcinellus*)

Uncommon resident

WHITE-FACED IBIS (*Plegadis chihi*)

Uncommon to common resident

ROSEATE SPOONBILL (*Ajaia ajaja*)

Rare to uncommon resident; rare post-breeding visitor in summer and fall

Family Ciconiidae STORKS

WOOD STORK (*Mycteria americana*)

Casual post-breeding visitor

Order *Anseriformes*

Family Anatidae SWANS, GEESE, DUCKS

FULVOUS WHISTLING-DUCK (*Dendrocygna bicolor*)

Casual in winter

WHITE-FRONTED GOOSE (*Anser albifrons*)

Rare to uncommon in winter

SNOW GOOSE (*Chen caerulescens*)
Uncommon to common in winter

CANADA GOOSE (*Branta canadensis*)
Uncommon to rare in winter

WOOD DUCK (*Aix sponsa*)
Common resident

GREEN-WINGED TEAL (*Anas crecca*)
Regular to common in winter

AMERICAN BLACK DUCK (*Anas rubripes*)
Rare to occasional in winter

MOTTLED DUCK (*Anas fulvigula*)
Common resident

MALLARD (*Anas platyrhynchos*)
Common in winter

NORTHERN PINTAIL (*Anas acuta*)
Uncommon to common in winter

BLUE-WINGED TEAL (*Anas discors*)
Abundant migrant; common winter visitor; occasional in summer

CINNAMON TEAL (*Anas cyanoptera*)
Occasional to accidental in winter

NORTHERN SHOVELER (*Anas clypeata*)
Common in winter

GADWALL (*Anas strepera*)
Common to abundant in winter

EURASIAN WIGEON (*Anas penelope*)
Accidental in winter

AMERICAN WIGEON (*Anas americana*)
Common to abundant in winter

CANVASBACK (*Aythya valisineria*)
Uncommon to rare in winter

REDHEAD (*Aythya americana*)

Uncommon in winter

RING-NECKED DUCK (*Aythya collaris*)

Uncommon to common in winter

GREATER SCAUP (*Aythya marila*)

Uncommon in winter

LESSER SCAUP (*Aythya affinis*)

Common to abundant in winter

KING EIDER (*Somateria spectabilis*)

Accidental

OLDSQUAW (*Clangula hyemalis*)

Uncommon to rare in winter

BLACK SCOTER (*Melanitta nigra*)

Rare in winter

SURF SCOTER (*Melanitta perspicillata*)

Rare in winter

WHITE-WINGED SCOTER (*Melanitta fusca*)

Casual in winter

BUFFLEHEAD (*Bucephala albeola*)

Uncommon in winter

COMMON GOLDENEYE (*Bucephala clangula*)

Uncommon in winter

HOODED Merganser (*Lophodytes cucullatus*)

Uncommon to occasional in winter; may breed in BTS, but no direct evidence

COMMON MERGANSER (*Mergus merganser*)

Rare to accidental in winter

RED-BREASTED MERGANSER (*Mergus serrator*)

Uncommon to common in winter

RUDDY DUCK (*Oxyura jamaicensis*)
Uncommon in winter

Order Falconiformes

Family Cathartidae VULTURES

BLACK VULTURE (*Coragyps atratus*)
Uncommon to common resident and breeding bird

TURKEY VULTURE (*Cathartes aura*)
Common resident and breeding bird

Family Accipitridae HAWKS, HARRIERS

OSPREY (*Pandion haliaetus*)
Uncommon migrant; uncommon to rare in winter; local breeder

AMERICAN SWALLOW-TAILED KITE (*Elanoides forficatus*)
Uncommon migrant; rare and local breeder in summer

WHITE-TAILED KITE (*Elanus caeruleus*)
Rare in winter and apparently breeding in BTS

MISSISSIPPI KITE (*Ictinia mississippiensis*)
Common in summer

winter visitor

NORTHERN HARRIER (*Circus cyaneus*)
Common winter visitor

SHARP-SHINNED HAWK (*Accipiter striatus*)
Uncommon in winter; fairly common migrant

COOPER'S HAWK (*Accipiter cooperii*)
Quite uncommon in winter; uncommon migrant; rare breeder

RED-SHOULDERED HAWK (*Buteo lineatus*)
Common resident

BROAD-WINGED HAWK (*Buteo platypterus*)

Common migrant; uncommon local breeder; casual in winter

RED-TAILED HAWK (*Buteo jamaicensis*)

Common in winter; uncommon and local breeder

ROUGH-LEGGED HAWK (*Buteo lagopus*)

Accidental winter visitor

AMERICAN KESTREL (*Falco sparverius*)

Common in winter; rare breeder

MERLIN (*Falco columbarius*)

Uncommon to almost rare in winter

PEREGRINE FALCON (*Falco peregrinus*)

Uncommon to rare in winter

Order *Galliformes*

Family Phasianidae **PHEASANTS, GROUSE, QUAILS**

NORTHERN BOBWHITE (*Colinus virginianus*)

Rare to uncommon resident

WILD TURKEY (*Meleagris gallopavo*)

Rare to common (locally) resident

Order *Gruiformes*

Family Rallidae **RAILS, GALLINULES, COOTS**

YELLOW RAIL (*Coturnicops novaboracensis*)

Rare in winter

BLACK RAIL (*Laterallus jamaicensis*)

Rare in winter

KING RAIL (*Rallus elegans*)

Rather common resident

CLAPPER RAIL (*Rallus longirostris*)

Common resident

VIRGINIA RAIL (*Rallus limicola*)

Uncommon in winter

SORA (*Porzana carolina*)

Uncommon to fairly common in winter

PURPLE GALLINULE (*Porphyrrula martinica*)

Uncommon in summer; rare in winter

COMMON MOORHEN (*Gallinula chloropus*)

Common resident

AMERICAN COOT (*Fulica americana*)

Common to abundant in winter; rare to uncommon in summer

Order *Charadriiformes*

Family Charadriidae PLOVERS

BLACK-BELLIED PLOVER (*Pluvialis squatarola*)

Common to very common in winter; common migrant; uncommon summer visitor

LESSER GOLDEN PLOVER (*Pluvialis dominica*)

Uncommon to common spring migrant; occasional fall migrant

MONGOLIAN PLOVER (*Charadrius mongolus*)

Accidental migrant

SNOWY PLOVER (*Charadrius alexandrinus*)

Rare migrant; rare in winter

WILSON'S PLOVER (*Charadrius wilsonia*)

Common in summer; uncommon to rare in winter

SEMIPALMATED PLOVER (*Charadrius semipalmatus*)

Uncommon to common migrant; uncommon in winter

PIPING PLOVER (*Charadrius melanotos*)

Uncommon to common migrant; uncommon to rare in winter

KILLDEER (*Charadrius vociferus*)

Very common to abundant resident

Family Haematopodidae OYSTERCATCHERS

AMERICAN OYSTERCATCHER (*Haematopus palliatus*)

Locally rare in summer

Family Recurvirostridae AVOCETS AND STILTS

BLACK-NECKED STILT (*Himantopus mexicanus*)

Common to very common in summer; uncommon in winter

AMERICAN AVOCET (*Recurvirostra americana*)

Rare to uncommon in winter

Family Scolopacidae SANDPIPERs

GREATER YELLOWLEGS (*Tringa melanoleuca*)

Common in winter; probably can be found in every month (nonbreeders)

LESSER YELLOWLEGS (*Tringa flavipes*)

Very common in winter; probably can be found in every month
(nonbreeders)

SOLITARY SANDPIPER (*Tringa solitaria*)

Uncommon to sometimes common migrant

WILLET (*Catoptrophorus semipalmatus*)

Common to very common resident

SPOTTED SANDPIPER (*Actitis macularia*)

Common in winter

UPLAND SANDPIPER (*Bartramia longicauda*)

Uncommon migrant

WHIMBREL (*Numenius phaeopus*)

Rare winter visitor

LONG-BILLED CURLEW (*Numenius borealis*)

Occasional to accidental migrant

MARBLED GODWIT (*Limosa fedoa*)

Common to uncommon migrant; uncommon to rare in winter; casual in summer

RUDDY TURNSTONE (*Arenaria interpres*)

Common in winter

RED KNOT (*Calidris canutus*)

Uncommon to rare in winter; common migrant

SANDERLING (*Calidris alba*)

Very common in winter; uncommon to rare in summer; common migrant

SEMIPALMATED SANDPIPER (*Calidris pusilla*)

Regular to common migrant

WESTERN SANDPIPER (*Calidris mauri*)

Common to abundant in winter; abundant migrant

LEAST SANDPIPER (*Calidris minutilla*)

Very common in winter; probably found in every month; common migrant

WHITE-RUMPED SANDPIPER (*Calidris fuscicollis*)

Uncommon to common spring migrant

BAIRD'S SANDPIPER (*Calidris bairdii*)

Rare to occasional migrant

PECTORAL SANDPIPER (*Calidris melanotos*)

Common migrant

PURPLE SANDPIPER (*Calidris maritima*)

Accidental in winter

DUNLIN (*Calidris alpina*)

Common to very common in winter

CURLEW SANDPIPER (*Calidris ferruginea*)

Accidental migrant

STILT SANDPIPER (*Calidris himantopus*)

Common to very common migrant

BUFF-BREASTED SANDPIPER (*Tryngites subruficollis*)

Uncommon migrant

SHORT-BILLED DOWITCHER (*Limnodromus griseus*)

Abundant migrant; common in winter

LONG-BILLED DOWITCHER (*Limnodromus scolopaceus*)

Common migrant; regular to common in winter

COMMON SNIPE (*Gallinago gallinago*)

Fairly common in winter

AMERICAN WOODCOCK (*Scolopax minor*)

Uncommon to locally common in winter

WILSON'S PHALAROPE (*Phalaropus tricolor*)

Uncommon migrant

RED-NECKED PHALAROPE (*Phalaropus lobatus*)

Accidental fall migrant

RED PHALAROPE (*Phalaropus fulicaria*)

Accidental fall migrant

Family Laridae GULLS, TERNS, AND SKIMMERS

LAUGHING GULL (*Larus atricilla*)

Abundant resident

FRANKLIN'S GULL (*Larus pipixcan*)

Uncommon to rare fall migrant; rare to casual in spring

BONAPARTE'S GULL (*Larus philadelphicus*)

Common in winter

RING-BILLED GULL (*Larus delawarensis*)

Abundant in winter; uncommon to rare in summer

HERRING GULL (*Larus argentatus*)

Abundant in winter

THAYER'S GULL (*Larus thayeri*)

Rare in winter

LESSER BLACK-BACKED GULL (*Larus fuscus*)

Rare winter visitor

GLAUCOUS GULL (*Larus hyperboreus*)

Casual in winter

GREAT BLACK-BACKED GULL (*Larus marinus*)

Rare in winter

SABINE'S GULL (*Xema sabini*)

Accidental migrant

GULL-BILLED TERN (*Sterna nilotica*)

Uncommon resident

CASPIAN TERN (*Sterna caspia*)

Common resident

ROYAL TERN (*Sterna maxima*)

Very common to abundant resident

SANDWICH TERN (*Sterna sandvicensis*)

Abundant summer nester; uncommon to rare in winter

COMMON TERN (*Sterna hirundo*)

Common late spring migrant; uncommon to rare in winter

FORSTER'S TERN (*Sterna forsteri*)

Common resident

LEAST TERN (*Sterna antillarum*)

Common to locally abundant summer nester

BRIDLED TERN (*Sterna anaethetus*)

Erratic

SOOTY TERN (*Sterna fuscata*)

Erratic

BLACK TERN (*Chlidonias niger*)

Regular non-breeding in summer; erratic in winter

BLACK SKIMMER (*Rynchops niger*)

Common resident

Order *Columbiformes*

Family Columbidae DOVES AND PIGEONS

ROCK DOVE (*Columba livia*)

Very common resident

EURASIAN COLLARED DOVE (*Streptopelia decaocto*)

Introduced; uncommon, but increasing

WHITE-WINGED DOVE (*Zenaida asiatica*)

Uncommon to rare in winter; possibly a casual breeder

MOURNING DOVE (*Zenaida macroura*)

Very common to abundant resident

PASSENGER PIGEON (*Ectopistes migratorius*)

EXTINCT

COMMON GROUND DOVE (*Columbina passerina*)

Rare in winter

Family Psittacidae PARAKEETS

CAROLINA PARAKEET (*Conuropsis carolinensis*)

EXTINCT

Order *Cuculiformes*

Family Cuculidae CUCKOOS AND ALLIES

BLACK-BILLED CUCKOO (*Coccyzus erythrophthalmus*)

Quite uncommon to uncommon migrant

YELLOW-BILLED CUCKOO (*Coccyzus americanus*)

Common to abundant migrant; common breeder in summer

GROOVE-BILLED ANI (*Crotophaga sulcirostris*)

Uncommon to rare in winter

Order *Strigiformes*

Family Tytonidae BARN-OWLS

COMMON BARN-OWL (*Tyto alba*)

Uncommon resident

Family Strigidae TYPICAL OWLS

EASTERN SCREECH-OWL (*Otus asio*)

Common resident

GREAT HORNED OWL (*Bubo virginianus*)

Uncommon to fairly common resident

BURROWING OWL (*Athene cunicularia*)

Rare in winter

BARRED OWL (*Strix varia*)

Common to abundant resident

SHORT-EARED OWL (*Asio flammeus*)

Rare in winter

Order *Caprimulgiformes*

Family Caprimulgidae NIGHTJARS

LESSER Nighthawk (*Chordeiles acutipennis*)

Very rare to occasional migrant; very rare to occasional in winter

COMMON Nighthawk (*Chordeiles minor*)

Common in summer; rare in winter

CHUCK-WILL'S-WIDOW (*Caprimulgus carolinensis*)

Uncommon migrant; rare in winter

WHIP-POOR-WILL (*Caprimulgus vociferus*)

Uncommon to rare migrant; very rare in winter

Order *Apodiformes*

Family Apodidae SWIFTS

CHIMNEY SWIFT (*Chaetura pelagica*)

Very common in summer

Family Trochilidae HUMMINGBIRDS

RUBY-THROATED HUMMINGBIRD (*Archilochus colubris*)

BTS Common in summer; casual winter visitor; most frequently seen of the hummingbirds in field and feeders

Order *Coraciiformes*

Family Alcedinidae KINGFISHERS

BELTED KINGFISHER (*Ceryle alcyon*)

Common in winter; may breed

Order *Piciformes*

Family Picidae WOODPECKERS

RED-HEADED WOODPECKER (*Melanerpes erythrocephalus*)

Rare resident

RED-BELLIED WOODPECKER (*Melanerpes carolinus*)

Common resident

YELLOW-BELLIED SAPSUCKER (*Sphyrapicus varius*)

Common in winter

DOWNTY WOODPECKER (*Picoides pubescens*)

Common resident

HAIRY WOODPECKER (*Picoides villosus*)

Uncommon to common resident

NORTHERN FLICKER (*Colaptes auratus*)

Common to very common in winter; uncommon to rare breeder

PILEATED WOODPECKER (*Dryocopus pileatus*)

Uncommon to fairly common resident

IVORY-BILLED WOODPECKER (*Campephilus principalis*)
Likely EXTINCT

Order *Passeriformes*

Family Tyrannidae FLYCATCHERS

OLIVE-SIDED FLYCATCHER (*Contopus borealis*)
Uncommon fall migrant

EASTERN WOOD PEWEE (*Contopus virens*)
Common to very common migrant; uncommon nesting bird

ACADIAN FLYCATCHER (*Empidonax virescens*)
Common in summer

LEAST FLYCATCHER (*Empidonax minimus*)
Probable uncommon migrant

CORDILLERAN FLYCATCHER (*Empidonax difficilis*)
Accidental visitor

EASTERN PHOEBE (*Sayornis phoebe*)
Common in winter

VERMILLION FLYCATCHER (*Pyrocephalus rubinus*)
Rare fall migrant; rare winter visitor

GREAT-CRESTED FLYCATCHER (*Myiarchus crinitus*)
Common in summer

BROWN-CRESTED FLYCATCHER (*Myiarchus tyrannulus*)
Rare to casual winter visitor

SULPHUR-BELLIED FLYCATCHER (*Myiodynastes luteiventris*)
Accidental

TROPICAL KINGBIRD (*Tyrannus melancholicus*)
Accidental

WESTERN KINGBIRD (*Tyrannus verticalis*)
Rare to very uncommon migrant; rare to very common winter visitor

EASTERN KINGBIRD (*Tyrannus tyrannus*)

Common to very common in summer

GRAY KINGBIRD (*Tyrannus dominicensis*)

Occasional visitor in spring

SCISSOR-TAILED FLYCATCHER (*Tyrannus forficatus*)

Rare visitor, mostly in fall

Family Alaudidae LARKS

HORNED LARK (*Eremophila alpestris*)

Occasional in winter

Family Hirundinidae SWALLOWS

PURPLE MARTIN (*Progne subis*)

Common to abundant in summer

TREE SWALLOW (*Tachycineta bicolor*)

Common to abundant in winter

NORTHERN ROUGH-WINGED SWALLOW (*Stelgidopteryx serripennis*)

Common to uncommon migrant; rare in winter; possible breeder

BANK SWALLOW (*Riparia riparia*)

Common to uncommon migrant

CLIFF SWALLOW (*Hirundo pyrrhonota*)

Rare to uncommon migrant; probably expanding and may already be breeding in BTS

BARN SWALLOW (*Hirundo rustica*)

Common in summer

Family Corvidae JAYS AND CROWS

BLUE JAY (*Cyanocitta cristata*)

Common resident

AMERICAN CROW (*Corvus brachyrhynchos*)

Common to abundant resident

FISH CROW (*Corvus ossifragus*)
Common to abundant resident

Family Paridae CHICKADEES AND TITMICE

CAROLINA CHICKADEE (*Parus carolinensis*)
Common resident

TUFTED TITMOUSE (*Parus bicolor*)
Uncommon to common resident

Family Certhiidae CREEPERS

BROWN CREEPER (*Certhia americana*)
Uncommon to rare in winter

Family Troglodytidae WRENS

CAROLINA WREN (*Thryothorus ludovicianus*)
Common to very common resident

HOUSE WREN (*Troglodytes aedon*)
Common in winter

WINTER WREN (*Troglodytes troglodytes*)
Uncommon in winter

SEDGE WREN (*Cisothorus platensis*)
Common in winter

MARSH WREN (*Cisothorus palustris*)
Common to uncommon resident

Family Muscicapidae OLD WORLD WARBLERS AND THRUSHERS

GOLDEN-CROWNED KINGLET (*Regulus satrapa*)
Uncommon in winter

RUBY-CROWNED KINGLET (*Regulus calendula*)
Very common in winter

BLUE-GRAY GNATCATCHER (*Polioptila caerulea*)
Uncommon resident; common migrant

EASTERN BLUEBIRD (*Sialia sialis*)

Uncommon resident

VEERY (*Catharus fuscescens*)

Common to uncommon migrant

GRAY-CHEEKED THRUSH (*Catharus minimus*)

Common migrant

SWAINSON'S THRUSH (*Catharus ustulatus*)

Common to abundant migrant

HERMIT THRUSH (*Catharus guttatus*)

Uncommon in winter

WOOD THRUSH (*Hylocichla mustelina*)

Uncommon to common resident; fairly common migrant

AMERICAN ROBIN (*Turdus migratorius*)

Abundant in winter; may breed locally

VARIED THRUSH (*Ixoreus naevius*)

Accidental visitor

Family Mimidae MIMIC THRUSHES

GRAY CATBIRD (*Dumetella carolinensis*)

Common to abundant migrant; uncommon in winter; occasional local breeder

NORTHERN MOCKINGBIRD (*Mimus polyglottos*)

Very common resident

BROWN THRASHER (*Toxostoma rufum*)

Common in winter; breeds locally and sparingly

Family Motacillidae PIPITS

WATER PIPIT (*Anthus spinoletta*)

Uncommon to common in winter

SPRAGUE'S PIPIT (*Anthus spragueii*)

Rare in winter

Family Bombycillidae WAXWINGS

CEDAR WAXWING (*Bombycilla cedrorum*)
Common in winter

Family Laniidae SHRIKES

LOGGERHEAD SHRIKE (*Lanius ludovicianus*)
Common resident

Family Sturnidae STARLINGS

EUROPEAN STARLING (*Sturnus vulgaris*)
Introduced, abundant resident

Family Vireonidae VIREOS

WHITE-EYED VIREO (*Vireo griseus*)
Common in summer; uncommon in winter; abundant migrant

SOLITARY VIREO (*Vireo solitarius*)
Uncommon to common winter visitor

YELLOW-THROATED VIREO (*Vireo flavifrons*)
Common migrant; erratic in winter; uncommon breeder

WARBLING VIREO (*Vireo gilvus*)
Very uncommon to almost rare migrant

PHILADELPHIA VIREO (*Vireo philadelphicus*)
Uncommon spring migrant; occasionally common fall migrant

RED-EYED VIREO (*Vireo olivaceous*)
Very common in summer; often abundant migrant

BLACK-WHISKERED VIREO (*Vireo altiloquus*)
Casual migrant; possibly occasionally nesting

Family Emberizidae WOOD WARBLERS, TANAGERS, GROSBEAKS,
SPARROWS, BLACKBIRDS, ORIOLES

BACHMAN'S WARBLER (*Vermivora bachmanii*)
Possibly EXTINCT

BLUE-WINGED WARBLER (*Vermivora pinus*)
Uncommon to common migrant

GOLDEN-WINGED WARBLER (*Vermivora chrysoptera*)
Uncommon migrant

TENNESSEE WARBLER (*Vermivora peregrina*)
Common to very common migrant

ORANGE-CROWNED WARBLER (*Vermivora celata*)
Common in winter

NASHVILLE WARBLER (*Vermivora ruficapilla*)
Rare fall migrant, occasional spring migrant

LUCY'S WARBLER (*Vermivora luciae*)
Accidental winter visitor

NORTHERN PARULA (*Parula americana*)
Very common migrant; very common in summer

YELLOW WARBLER (*Dendroica petechia*)
Uncommon to common spring migrant; very common to sometimes
abundant fall migrant

CHESTNUT-SIDED WARBLER (*Dendroica pensylvanica*)
Uncommon migrant

MAGNOLIA WARBLER (*Dendroica magnolia*)
Common migrant

CAPE MAY WARBLER (*Dendroica tigrina*)
Rare spring migrant

BLACK-THROATED BLUE WARBLER (*Dendroica caerulescens*)
Rare migrant

YELLOW-RUMPED WARBLER (*Dendroica coronata*)
Very common to abundant in winter

BLACK-THROATED GRAY WARBLER (*Dendroica nigrescens*)
Casual in winter

BLACK-THROATED GREEN WARBLER (*Dendroica virens*)

Common migrant

BLACKBURNIAN WARBLER (*Dendroica fusca*)

Uncommon to common migrant

YELLOW-THROATED WARBLER (*Dendroica dominica*)

Common in summer

PINE WARBLER (*Dendroica pinus*)

Regular in winter

PRAIRIE WARBLER (*Dendroica discolor*)

Regular fall migrant; uncommon spring migrant

PALM WARBLER (*Dendroica palmarum*)

Uncommon in winter

BAY-BREASTED WARBLER (*Dendroica castanea*)

Common late spring migrant; uncommon to occasionally common fall migrant

BLACKPOLL WARBLER (*Dendroica striata*)

Uncommon to common spring migrant

CERULEAN WARBLER (*Dendroica caerulea*)

Uncommon migrant

BLACK-AND-WHITE WARBLER (*Mniotilla varia*)

Common migrant; rare in winter

AMERICAN REDSTART (*Setophaga ruticilla*)

Common migrant; uncommon in summer; may breed locally

PROTHONOTARY WARBLER (*Protonotaria citrea*)

Common in summer; common migrant

SWAINSON'S WARBLER (*Limnothlypis swainsonii*)

Uncommon in summer; uncommon migrant

OVENBIRD (*Seiurus aurocapillus*)

Common migrant; rare in winter

NORTHERN WATERTHRUSH (*Seiurus novaboracensis*)

Common migrant; very uncommon in winter

LOUISIANA WATERTHRUSH (*Seiurus motacilla*)

Uncommon migrant

KENTUCKY WARBLER (*Oporornis formosus*)

Uncommon to common migrant; uncommon to common in summer

COMMON YELLOWTHROAT (*Geothlypis trichas*)

Common to abundant resident; common to abundant migrant

HOODED WARBLER (*Wilsonia citrina*)

Common in summer; common migrant

WILSON'S WARBLER (*Wilsonia pusilla*)

Regular uncommon to rare winter visitor; somewhat more common migrant

CANADA WARBLER (*Wilsonia canadensis*)

Uncommon fall migrant; rare spring migrant

YELLOW-BREASTED CHAT (*Icteria virens*)

Fairly common in summer; uncommon to rare migrant

SUMMER TANAGER (*Piranga rubra*)

Common migrant; uncommon in summer

SCARLET TANAGER (*Piranga olivacea*)

Fairly common migrant

WESTERN TANAGER (*Piranga ludoviciana*)

Rare visitor in fall and winter

NORTHERN CARDINAL (*Cardinalis cardinalis*)

Very common resident

ROSE-BREASTED GROSBEAK (*Pheucticus ludovicianus*)

Fairly common migrant

BLUE GROSBEAK (*Guiraca caerulea*)

Common to abundant migrant; casual winter visitor near coast

INDIGO BUNTING (*Passerina cyanea*)

Common to abundant migrant; uncommon to common in summer; casual winter visitor

PAINTED BUNTING (*Passerina ciris*)

Common in summer; casual winter visitor

RUFOUS-SIDED [EASTERN] TOWHEE (*Pipilo erythrophthalmus*)

Common resident

CHIPPING SPARROW (*Spizella passerina*)

Common in winter

CLAY-COLORED SPARROW (*Spizella pallida*)

Rare fall migrant

FIELD SPARROW (*Spizella pusilla*)

Uncommon in winter

VESPER SPARROW (*Pooecetes gramineus*)

Uncommon in winter

LARK SPARROW (*Chondestes grammacus*)

Uncommon fall migrant; rare winter visitor

LARK BUNTING (*Calamospiza melanocorys*)

Accidental

SAVANNAH SPARROW (*Passerculus sandwichensis*)

Common in winter

GRASSHOPPER SPARROW (*Ammodramus savannarum*)

Uncommon in winter

LECONTE'S SPARROW (*Ammodramus leconteii*)

Uncommon in winter

SHARP-TAILED SPARROW (*Ammodramus caudacutus*)

Common in winter

SEASIDE SPARROW (*Ammodramus maritima*)

Common to very common resident

FOX SPARROW (*Passerella iliaca*)

Casual to rare in winter

SONG SPARROW (*Melospiza melodia*)

Common in winter

LINCOLN'S SPARROW (*Melospiza lincolni*)

Uncommon to rare in winter

SWAMP SPARROW (*Melospiza georgiana*)

Very common to abundant in winter

WHITE-THROATED SPARROW (*Zonotrichia albicollis*)

Common in winter

GOLDEN-CROWNED SPARROW (*Zonotrichia atricapilla*)

Accidental

WHITE-CROWNED SPARROW (*Zonotrichia leucophrys*)

Uncommon in winter

BOBOLINK (*Dolichonyx oryzivorus*)

Uncommon to sometimes common spring migrant; rare in fall

RED-WINGED BLACKBIRD (*Agelaius phoeniceus*)

Abundant resident

EASTERN MEADOWLARK (*Sturnella magna*)

Common resident

YELLOW-HEADED BLACKBIRD (*Xanthocephalus xanthocephalus*)

Casual to rare visitor, mostly in fall

RUSTY BLACKBIRD (*Euphagus carolinus*)

Uncommon to common in winter

BREWER'S BLACKBIRD (*Euphagus cyanocephalus*)

Very uncommon in winter

BOAT-TAILED GRACKLE (*Quiscalus major*)

Common to very common resident

COMMON GRACKLE (*Quiscalus quiscula*)

Very common to abundant resident

SHINY COWBIRD (*Molothrus bonariensis*)

Accidental

BROWN-HEADED COWBIRD (*Molothrus ater*)

Common resident

ORCHARD ORIOLE (*Icterus spurius*)

Common to very common migrant; fairly common in summer;

BALTIMORE ORIOLE (*Icterus galbula galbula*)

Common migrant; rare breeder; rare in winter

BULLOCK'S ORIOLE (*Icterus galbula bullockii*)

Almost rare to rare winter visitor

Family Fringillidae FINCHES

PURPLE FINCH (*Carpodacus purpureus*)

Erratic in winter

HOUSE FINCH (*Carpodacus mexicanus*)

Invasive, expanding into region

PINE SISKIN (*Carduelis pinus*)

Uncommon and erratic winter visitor

AMERICAN GOLDFINCH (*Carduelis tristis*)

Common to abundant in winter

Family Passeridae OLD WORLD SPARROWS

HOUSE SPARROW (*Passer domesticus*)

Introduced, common to abundant resident

Table A17. Summary of Vertical Accretion Studies Used in this Report.

<u>Map Reference No./ Site Location</u>	<u>Reference</u>	<u>Accretion (cm/yr)¹</u>	<u>Notes</u>
1 - South Pass	DeLaune et al., 1992	>2.00	
2 - Empire	DeLaune et al., 1992	1.40	
3 - Grand Terre	DeLaune et al., 1986	0.55	
	DeLaune et al., 1992	0.55	
4 - Grand Isle	DeLaune et al., 1986	0.78	
	DeLaune et al., 1992	0.79	
5 - Caminada Bay Marsh	Smith et al., 1983	0.76	marsh surface
		1.1	sed. from adj. water body
	Hatton et al., 1983	0.75	backmarsh site
6 - Barataria Bay Marsh	Baumann et al., 1984 ²	1.50	streamside, w/ hurricane effects
		1.10	streamside, w/out hurr. effects
		0.90	backmarsh, w/ hurricane effects
		0.60	backmarsh, w/out hurr. effects
7 - Three Bayou marshes	Reed unpub. data	3.26	Jul 1991 to Jan 1993, annualized
		2.87	Jan 1993 to Jul 1994, annualized
	Cahoon et al., 1995	1.40	pre- Andrew
		5.80	encompassing Andrew
8 - Marshes NE of Little Lake	Reed unpub. data	2.62	Jul 1991 to Jan 1993, annualized
		1.64	Jan 1993 to Jul 1994, annualized
	Cahoon et al., 1995	0.60	pre- Andrew
		5.20	encompassing Andrew
9 - Marshes NE of Lake Taylor et al., 1989		0.72	sites close to sediment source
Salvador		0.28	backmarsh sites
10 - L. Cataoutche area	DeLaune et al., 1992	1.00	
11 - Marshes W of B. Perot	Hatton et al., 1983	0.64	backmarsh site
		1.4	streamside on natural levee
	Smith et al., 1983	0.95	marsh surface
12 - Clovelly Farm - Little Lake	DeLaune et al., 1992	0.78	
13 - Marshes SW of Little Lake	Hatton et al., 1983	0.59	backmarsh site
		1.40	streamside on natural levee

14 - North Bayou Ferblanc, North Lake	DeLaune et al., 1992	0.78	
15 - Bayou Ferblanc	DeLaune et al., 1978	1.35	streamside salt marsh site
		0.75	backmarsh salt marsh site
	Cahoon and Turner 1989	0.99	50 m inland from natural bayou
		0.72	50 m transect perpendic. to above
	DeLaune et al., 1989	0.47	Cs dating
		0.42	Pb ²¹⁰ dating
	Knaus and Van Gent, 1989	1.29	
	DeLaune et al., 1990	0.44	backmarsh
		1.25	streamside
	DeLaune et al., 1992	0.74	
16 - Airplane Lake	DeLaune et al., 1978	1.1	lake bottom
	Childers and Day, 1990	4.39	creekside
		1.41	backmarsh
17 - Leeville	Nyman et al., 1995	0.00	thickness Andrew deposits in cm
18 - Golden Meadow Oil Field	DeLaune et al., 1992	0.70	
19 - Grand Bayou Blue	Pardue et al., 1988	0.86	
	DeLaune et al., 1992	0.86	
20 - Bayou Blue	Cahoon et al., 1995	0.41	pre- Andrew
		7.08	encompassing Andrew
21 - Lower Pointe au Chien	Reed, 1992	4.20	streamside, control site only
		3.30	backmarsh, control site only
22 - Bayou Jean La Croix	Reed, 1992	1.8	control site only
23 - Montegut Marsh	Reed, 1992	4.20	backmarsh, control site only
24 - Billy Goat Bay	Nyman et al., 1995	0.00	thickness Andrew deposits in cm
25 - Madison Bay	Nyman et al., 1995	4.0	thickness Andrew deposits in cm
26 - Bayou Barre	Nyman et al., 1993	0.96	(brackish marshes)
27 - Bayou Barre	Nyman et al., 1993	0.99	(saline marshes)
28 - Bayou Chitigue	DeLaune et al., 1992	1.02	
	Cahoon et al., 1995	5.50	encompassing Andrew
		2.30	post- Andrew
	Nyman et al., 1995	3.0	thickness Andrew deposits in cm

APPENDIX B

APPENDIX B

Conversion Constants and Multipliers

Conversion Factors—Metric to English

To obtain	Multiply	By
Inches	Centimeters	0.3937007874
Feet	Meters	3.280839895
Yards	Meters	1.093613298
Miles	Kilometers	0.6213711922
Ounces	Grams	$3.527396195 \times 10^{-2}$
Pounds	Kilograms	2.204622622
Gallons (U.S. Liquid)	Liters	0.2641720524
Fluid ounces	Milliliters (cc)	$3.381402270 \times 10^{-2}$
Square inches	Square centimeters	0.1550003100
Square feet	Square meters	10.76391042
Square yards	Square meters	1.195990046
Cubic inches	Milliliters (cc)	$6.102374409 \times 10^{-2}$
Cubic feet	Cubic meters	35.31466672
Cubic yards	Cubic meters	1.307950619

Conversion Factors—English to Metric*

To obtain	Multiply	By
Microns	Mils	25.4
Centimeters	Inches	2.54
Meters	Feet	0.3048
Meters	Yards	0.9144
Kilometers	Miles	1.609344
Grams	Ounces	28.34952313
Kilograms	Pounds	0.45359237
Liters	Gallons (U.S. Liquid)	3.785411784
Millimeters (cc)	Fluid ounces	29.57352956
Square centimeters	Square inches	6.4516
Square meters	Square feet	0.09290304
Square meters	Square yards	0.83612736
Milliliters (cc)	Cubic inches	16.387064
Cubic meters	Cubic feet	$2.831684659 \times 10^{-2}$
Cubic meters	Cubic yards	0.764554858

* Boldface numbers are exact; others are given to ten significant figures where so indicated by the multiplier factor.

29 - Cocodrie	DeLaune et al., 1992 Cahoon et al., 1995 Cahoon and Reed, 1995	0.7 2.5 0.99	2 wks. accum., after Andrew Apr 1988 - Mar 1990, annualized Dec 1989 - Jul 1991, annualized
30 - Bayou Chauvin	Reed, 1992	5.10	control site only
31 - Falgout Canal	Cahoon et al., 1995	4.80 4.60	encompassing Andrew immediately after Andrew
32 - Fina LaTerre	Cahoon, 1994	0.3	control sites only
33 - Bayou DuLarge	Nyman et al., 1995	3.3	thickness Andrew deposits in cm
34 - Bayou de Cade	Reed, 1992	1.8	control site only
35 - Otter Bayou	Reed, unpub. data Guntenspergen et al., 1995	4.73 3.81 3.60 1.70 7.20	Jul 1991 to Jan 1993, annualized Jan 1993 to Jul 1994, annualized least impacted marsh by Andrew compressed marsh by Andrew thick sediment marsh by Andrew
36 - Jug Lake Area	Reed, unpub. data Cahoon et al., 1995	3.46 0.99 8.25	Jul 1991 to Jan 1993, annualized Jan 1993 to Jul 1994, annualized encompassing Andrew
37 - Grand Pass	Nyman et al., 1995	6.5	thickness Andrew deposits in cm
38 - King Lake	Nyman et al., 1995	3.6	thickness Andrew deposits in cm
39 - Old Oyster Bayou	Cahoon et al., 1995 Nyman et al., 1995 Childers and Day, 1990	3.76 -0.24 3.5 1.40 0.20	encompassing Andrew post- Andrew thickness Andrew deposits in cm creekside backmarsh
40 - Blue Hammock Bayou	Nyman et al., 1995	9.0	thickness Andrew deposits in cm
41 - Carencro Bayou	Cahoon et al., 1995	1.34 14.74	pre Andrew encompassing Andrew
42 - FourLeague Bay Bottom Sediment	DeLaune et al., 1978b Pardue et al., 1988 DeLaune et al., 1992	>1.5 >1.5 >1.5	

43 - FourLeague Bay Marshes	Baumann et al., 1984 ³	1.30	streamside, no hurricane effects
	DeLaune et al., 1987b	0.56	backmarsh, no hurricane effects
		0.65	mean of four sites
44 - Point au Fer	DeLaune et al., 1992	0.65	
45 - Willow Bayou	Rejmanek et al., 1988	1.28	mean 5 plant community samples (includes Danny and Juan)
46 - Palmetto Bayou	DeLaune et al., 1989	0.90	Cesium dating
		0.73	Pb 210 dating
	Knaus and Van Gent, 1989	2.97	
	DeLaune et al., 1987b	0.92	sites in Palmetto, Creole and Plumb Bayous
	DeLaune et al., 1992	0.93	sites in Palmetto, Creole and Plumb Bayous
47 - Bayou Penchant (Terrebonne Marsh Complex)	DeLaune et al., 1987b	0.81	Cesium dating
		0.76	Pb 210 dating
	DeLaune et al., 1992	0.81	
48 - Lake Palourde	Pardue et al., 1988	1.1	bottom sediment
49 - Lake Verret, South	Connor and Day, 1991	4.44	on the edge
		1.32	100 m inland
50 - Lake Verret area	DeLaune et al., 1987a	0.63	avg. of 5 sites around the Lake
51 - Lake Verret, NW	Connor and Day, 1991	0.24	NW of the Lake, dry area
		0.60	NW of the Lake, semi-wet area
		0.84	NW of the Lake, wet area
	DeLaune et al., 1992	0.63	swamp forest
52 - Marshes S of L. des Allemands	Hatton et al., 1983	0.65	backmarsh site
		1.10	streamside on natural levee
	Smith et al., 1983	0.85	marsh surface
		0.52	water bottom

¹ Rates converted from published data to cm/yr, unless otherwise indicated (1 cu./yr. = 0.39 in./year)

² Mean of 8 sites throughout Barataria Bay

³ Mean of 14 sites around Fourleague Bayou